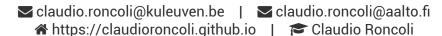
Claudio Roncoli

ASSOCIATE PROFESSOR · KU LEUVEN

Celestijnenlaan 300 - 3001 Leuven

VISITING PROFESSOR · AALTO UNIVERSITY





Research interests

- Modelling and control of traffic systems in presence of automated and connected vehicles
- Integration, management, and optimisation of emerging mobility systems and technologies
- Optimisation of Intelligent Transportation Systems for smart and sustainable mobility
- Traffic flow theory, modelling, and simulation

Professional positions _____

Associate Professor Centre for Industrial Management / Traffic and Infrastructure, Faculty of Engineering Science, KU Leuven	11/2024 – current Leuven, Belgium
Visiting Professor Department of Built Environment, School of Engineering, Aalto University	10/2024 – current Espoo, Finland
Associate Professor Department of Built Environment, School of Engineering, Aalto University	12/2022 – 10/2024 Espoo, Finland
Visiting Researcher School of Civil Engineering, University of Sydney	10/2023 – 12/2023 Sydney, Australia
Visiting Scholar School of Civil Engineering, University of Queensland	09/2023 – 10/2023 Brisbane, Australia
Assistant Professor Department of Built Environment, School of Engineering, Aalto University	10/2016 – 11/2022 Espoo, Finland
Postdoctoral Research Associate Dynamic Systems & Simulation Laboratory, Technical University of Crete	05/2013 - 09/2016 Chania, Greece
Visiting Student IMT School for Advanced Studies	07/2012 Lucca, Italy
Visiting Research Assistant Centre for Transport Studies, Imperial College London	01 – 07/2011 and 02 – 06/2012 London, UK
Research Assistant/Associate Industrial Automation Lab / DELAB, University of Genova	01/2007 – 04/2013 Genova, Italy

Education _____

Doctoral degree in System monitoring and environmental risk management UNIVERSITY OF GENOVA	01/2010 – 04/2013 Genova, Italy
Master's degree in Computer Engineering - Production and Services Management UNIVERSITY OF GENOVA	09/2006 – 07/2009 Genova, Italy
Bachelor's degree in Computer Engineering UNIVERSITY OF GENOVA	09/2003 – 09/2006 Genova, Italy

Participation in Research Projects _____

· · · · · · · · · · · · · · · · · · ·	
ACUMEN - Ai-aided deCision tool for seamless mUltiModal nEtwork and traffic managemeNt	06/2023 - current
Funded by the European Commission, through the Horizon Europe programme Coordinator	
SMARTEDGE - Semantic Low-code Programming Tools for Edge Intelligence FUNDED BY THE EUROPEAN COMMISSION, THROUGH THE HORIZON EUROPE PROGRAMME Project Partner Lead	01/2023 - current
ALCOSTO - Adaptive and Learning COntrol strategies for Sustainable future Traffic Operations	09/2022 - current
Funded by Academy of Finland	
Principal Investigator	01/2022 12/2024
AIForLEssAuto - Artificial Intelligence for Urban Low-Emission Autonomous Traffic	01/2022 - 12/2024
FUNDED BY ACADEMY OF FINLAND	
Subproject Principal Investigator	
Finest Twins - Smart Cities Centre of Excellence	12/2019 - 11/2023
FUNDED BY THE EUROPEAN COMMISSION, THROUGH THE HORIZON 2020 PROGRAMME Smart mobility stream leader	12/2013 - 11/2023
ULTRA - Ubiquitous Localization, communication, and sensing infrastrucTuRe for	01/2020 – 12/2022
Autonomous systems	, , , , , , , , , , , , , , , , , , , ,
FUNDED BY ACADEMY OF FINLAND	
Subproject Principal Investigator	
Profi4 - Competitive funding to strengthen Universities' research profile	09/2018 - 08/2022
Funded by Academy of Finland	
Smart mobility theme Co-Principal Investigator	
CMON - Connected Mobility Now	06/2017 - 06/2022
Funded by Henry Ford Foundation Finland	
Co-Principal Investigator	
WISE-ACT - Wider Impacts and Scenario Evaluation of Autonomous and	10/2019 – 03/2022
Connected Transport	
Funded by the European Commission, through a COST action Working Group leader	
FDMM - Future Digital Mobility Management	01/2021 - 12/2021
Funded by EIT Urban Mobility	
Project partner Principal Investigator	
TRA2020 - The Transport Research Arena 2020 in Helsinki	04/2018 – 10/2020
FUNDED BY THE EUROPEAN COMMISSION, THROUGH THE HORIZON 2020 PROGRAMME	
Work-package leader	
MULSIMCO - Multilevel Traffic Simulation with a Cognitive Basis	05/2017 – 08/2018
FUNDED BY ACADEMY OF FINLAND	
Faculty Investigator	00/2017 05/2010
SIMSIG - Traffic simulation for intelligent signal control FUNDED BY RSM LTD	06/2017 – 05/2018
Project leader	
	05/2012 02/2010
TRAMAN21 - Traffic Management for the 21st Century	05/2013 – 02/2018
Funded by the European Commission, through an ERC Advanced Grant Postdoctoral Research Associate	
TIP - Transport Integrated Platform	01/2007 – 04/2013
Funded by Eni R&M - Secondary Logistics	01/2001 - 07/2013
Research assistant / Research associate / Software designer and developer	
, or the state of	

SECTRAM - Securité du transport de marchandises - Sicurezza nel trasporto merci (Safety for the transport of goods) FUNDED BY THE EUROPEAN COMMISSION UNDER ALCOTRA (2007-2013) Research assistant	04/2009 – 03/2012
DaGoT - European Reference Framework on Dangerous Goods Transport FUNDED BY THE EUROPEAN COMMISSION UNDER THE SIXTH FRAMEWORK PROGRAMME Research assistant	01/2007 – 02/2008
Teaching activities	
Director of the Master's programme in Spatial Planning and Transportation Engineering (SPT) AALTO UNIVERSITY, FINLAND	10/2021 – 09/2024
Deputy Director of the Master's programme in Spatial Planning and Transportation Engineering (SPT) AALTO UNIVERSITY, FINLAND	08/2019 – 09/2021
Responsible teacher and main instructor for the Transport Modelling course Part of the SPT Master's programme - Aalto University, Finland	09/2018 – 02/2024
Responsible teacher and main instructor for the Traffic Flow Theory course Part of the SPT Master's programme - Aalto University, Finland	10/2016 - 04/2024
Deputy responsible teacher and co-instructor for the Traffic Management course Part of the SPT Master's programme - Aalto University, Finland	10/2016 - 06/2024
Participation in Educational Projects	
ENACT - Education network for automated and connected transport for sustainable cities FUNDED BY FINNISH MINISTRY OF EDUCATION AND CULTURE Project Partner Principal Investigator	01/2021 - 07/2023
Project Partner Principal Investigator Boost I&E 2.0 - Boosting Innovation and Entrepreneurship Challenge Project 2021 FUNDED BY EIT URBAN MOBILITY KIC Activity Lead	01/2021 – 12/2021
Boost I&E - Boosting Innovation and Entrepreneurship Challenge Project FUNDED BY EIT URBAN MOBILITY KIC Activity Partner Principal Investigator	01/2020 – 12/2020

Editorial and organisational activities

COMMITTEE MEMBERSHIPS

- Member of the Standing Committee on Vehicle-Highway Automation (ACP30) for the Transportation Research Board (TRB) (2022 current)
- Member of the Technical Committee for the IFAC 7.4: Transportation systems (2017 current)
- Member of the Technical Committee for the IEEE Emerging Transportation Technology Testing (ET3) (2023 current)
- Representative of the university members in the Governing Board for the European Partnership on Connected, Cooperative & Automated Mobility CCAM Association (2024 current)
- Partner Representative of the General Assembly for the European Partnership on Connected, Cooperative & Automated Mobility CCAM Association (2021 2024)
- Vice-chair of the Programme Committee for the Transport Research Arena (TRA2020)
- Member of the Scientific Committee for the Symposia on Management of Future motorway and urban Traffic Systems (MFTS 2016 - 2024)

- Member of the Technical Program Committee for the IFAC Symposia on Control in Transportation Systems (CTS 2018 - 2024)
- Member of the Technical Program Committee for the IEEE International Conference on Intelligent Transportation Systems (ITSC 2017, 2020 - 2023)
- Member of the Scientific Committee and Permanent Representative for Aalto University for the European Association for Research in Transportation (hEART 2015 2024)
- Member of the Scientific Committee for the IEEE International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS 2021 2023)
- Member of the Scientific Committee for the EURO Working Group on Transportation Meetings (EWGT 2016, 2020)
- Member of the International Program Committee for the IEEE Intelligent Vehicles Symposia (IV 2018 2022)
- Member of the International Program Committee for the International Conferences on Vehicle Technology and Intelligent Transport Systems (VEHITS 2015 2019)
- Member of the Technical Program Committee for the International Conferences on Advances in Vehicular Systems, Technologies and Applications (VEHICULAR 2017 2019)
- Member of the Technical Program Committee for the IEEE International Conference on System of Systems (SoSE 2012)

EDITOR FOR INTERNATIONAL JOURNALS AND CONFERENCES

- Editorial Advisory Board Member for Transportation Research Part C: Emerging Technologies
- Associate Editor for IEEE Transactions on Intelligent Transportation Systems
- Special Issues Editor (Deputy Editor-in-Chief) for IET Intelligent Transport Systems
- Associate Editor for IET Intelligent Transport Systems
- Editor for Proceedings of the Institution of Civil Engineers Transport
- Review Process Coordinator for TRB Committee on Vehicle-Highway Automation (ACP30)
- Review Editor for Frontiers in Future Transportation
- Principal organiser and Guest Editor of the Special Issue on "Management of Future Motorway and Urban Traffic Systems" within Transportation Research Part C: Emerging Technologies
- Guest Editor of the Special Issue on "Modelling, Learning, and Control of Conventional, Cooperative and Automated Motorway and Urban Traffic Systems" within Transportation Research Part C: Emerging Technologies
- Guest Editor of the Special issue on "Sustainable Development of Intelligent Transportation System and Equipment" within Sustainable Horizons
- Guest Editor of the Special Issue on "Management of Future Motorway and Urban Traffic Systems" within IEEE Transactions on Intelligent Transportation Systems
- Guest Editor of the Special Issue on "Traffic Modelling and Control for Smart, Safe and Green Mobility" within IEEE Open Journal of Intelligent Transportation Systems
- Guest Editor of the Special Issue on "Partially Connected and Automated Traffic Operations in Road Transportation" within Journal of Advanced Transportation
- Guest Editor of the Special issue on "Rethinking transport towards clean and inclusive mobility" within European Transport Research Review
- Guest Editor of the Special Issue on "Communication, Positioning, and Sensing Solutions for Autonomous Vehicles" within Sensors
- Associate Editor for the IEEE International Conferences on Intelligent Transportation Systems (ITSC)
- Associate Editor for the IFAC Symposia on Control in Transportation Systems (CTS)
- Associate Editor for the IEEE Intelligent Vehicles Symposia (IV)
- Associate Editor for the Forums on Integrated and Sustainable Transportation Systems (Forum ISTS)

EVENT ORGANISATION

- Principal organiser of the 12th Symposium of the European Association for Research in Transportation (hEART 2024)
- Principal organiser of the 1st Symposium on Management of Future motorway and urban Traffic Systems (MFTS 2016)
- Technical programme co-chair of the 8th IEEE International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS 2023)
- Member of the Organising Committee for the Transport Research Arena 2020 (TRA2020)
- Co-organiser of the invited session on "Novel methods for modeling and control of mobility and traffic systems"

- at the 23rd European Control Conference (ECC 2025)
- Organiser of the Breakout session on "Interactive Traffic Management for Highly Automated Vehicles: A Multidisciplinary Challenge" at the 2023 TRB Annual Automated Road Transportation Symposium (ARTS23)
- Co-organiser of the special session titled "Towards sustainable traffic via trajectory optimisation and control strategies for Connected and Automated vehicles" at the 25th IEEE International Conferences on Intelligent Transportation Systems (ITSC 2022)
- Organiser of the Breakout session on "Interactive Traffic Management for Highly Automated Vehicles" at the 2022 TRB Annual Automated Road Transportation Symposium (ARTS22)
- Organiser and moderator of the invited session on "Intelligent Transport Systems" (Nordic Perspective Summit 2020)
- Organiser and Editor of the special Track on "Freeway Traffic Control" at the 15th IFAC Symposium on Control in Transportation Systems (CTS 2018)
- Co-organiser of the open invited track on "Traffic modeling, estimation and control" at the 20th World Congress of the International Federation of Automatic Control (IFAC 2017)
- Co-organiser of the special session on "Recent advances in motorway traffic control" at the 19th IEEE International Conferences on Intelligent Transportation Systems (ITSC 2016)
- Co-organiser of the invited session on "Management and control of motorway traffic systems" at the 14th IFAC Symposium on Control in Transportation Systems (CTS 2016)
- Co-organiser of the special session on "Advances in motorway traffic control" at the 18th IEEE International Conferences on Intelligent Transportation Systems (ITSC 2015)
- Co-organiser of the special session on "Design, modelling, and control of autonomous and cooperative vehicle systems" at the 18th Euro Working Group on Transportation Meeting (EWGT 2015)
- Co-organiser of the invited session on "Optimal control of motorways" at the 20th Conference of the International Federation of Operational Research Societies (IFORS 2014)

REVIEWER FOR INTERNATIONAL JOURNALS

- Transportation Research Part C: Emerging Technologies
- IEEE Transactions on Intelligent Transportation Systems
- Transportation Research Part B: Methodological
- Transportation Research Part A: Policy and Practice
- Transportation Science
- Transportation Research Record
- IET Intelligent Transport Systems
- Automatica
- IEEE Transactions on Control Systems Technology
- Control Engineering Practice
- Annual Reviews in Control
- IEEE Intelligent Transportation Systems Magazine
- IEEE Control Systems Magazine
- International Journal of Robust and Nonlinear Control
- IEEE Systems Journal
- IEEE Control Systems Letters
- Journal of Advanced Transportation
- Transportmetrica A: Transport Science
- Transportmetrica B: Transport Dynamics
- Transport Policy
- Transportation Letters: The International Journal of Transportation Research
- Journal of Traffic and Transportation Engineering
- EURO Journal on Transportation and Logistics
- Mathematical and Computer Modelling of Dynamical Systems
- Journal of Intelligent Transportation Systems: Technology, Planning, and Operations
- PROMET Traffic & Transportation
- European Journal of Transport and Infrastructure Research
- International Journal of Sustainable Transportation
- Physica A

Advances in Mechanical Engineering

REVIEWER FOR INTERNATIONAL CONFERENCES

- IEEE International Conferences on Intelligent Transportation Systems (ITSC)
- IEEE Intelligent Vehicles Symposia (IV)
- IEEE Conferences on Decision and Control (CDC)
- European Control Conferences (ECC)
- IFAC World Congresses (WS)
- IFAC Symposia on Control in Transportation Systems (CTS)
- Transportation Research Board (TRB) Annual Meetings
- Symposia of the European Association for Research in Transportation (hEART)
- EURO Working Group on Transportation Meetings (EWGT)
- International Symposia on Transportation and Traffic Theory (ISTTT)
- international Conferences on Traffic and Granular Flow (TGF)
- International Conferences on Vehicle Technology and Intelligent Transport Systems (VEHITS)
- European Conference on Information Systems (ECIS)
- IEEE International Conferences on System of Systems (SoSE)
- International Conferences on System Theory, Control and Computing (ICSTCC)

Supervision activities	
AT KU LEUVEN	
Mr. Matteo Paiano, PhD student KU Leuven, Belgium	03/2025 – current
AT AALTO UNIVERSITY	
Dr. Murat Bayrak, Postdoctoral researcher Aalto University, Finland	08/2023 – current
Dr. Shaghayegh Vosough, Postdoctoral researcher AALTO UNIVERSITY, FINLAND	03/2021 – current
Ms. Liva Westerback, PhD student Aalto University, Finland	11/2023 – current
Ms. Heqi Wang, PhD student AALTO UNIVERSITY, FINLAND	03/2023 – current
Mr. Yuanxiang Yang, PhD student Aalto University, Finland	10/2022 – current
Mr. Muhammad Haris, PhD student Aalto University, Finland	09/2022 – current
Mr. Francesco Vitale, PhD student AALTO UNIVERSITY, FINLAND	01/2020 – current
Ms. Oxana Ivanova, MSc student AALTO UNIVERSITY, FINLAND	11/2024 – current
Ms. Julia Latvala, MSc student AALTO UNIVERSITY, FINLAND	11/2024 – current
Ms. Elina Aittoniemi, Part-time PhD student Aalto University, Finland - also at VTT Technical Research Centre of Finland	11/2018 – current
Mr. Serio Agriesti, PhD student Aalto University, Finland	03/2020 - 10/2024
Mr. Ze Zhou, PhD student Aalto University, Finland	04/2019 – 10/2024

Mr. Roozbeh Mohammadi, PhD student Aalto University, Finland	02/2018 – 08/2023
Mr. Farzam Tajdari, Part-time PhD student Aalto University, Finland	10/2017 - 01/2023
Dr. Iisakki Kosonen, Senior researcher Aalto University, Finland	04/2019 – 10/2024
Dr. Charalampos Sipetas, Postdoctoral researcher Aalto University, Finland	01/2021 - 01/2025
Dr. Ramin Niroumand, Postdoctoral researcher Aalto University, Finland	08/2023 – 08/2024
Dr. Weiming Zhao, Postdoctoral researcher Aalto University, Finland	11/2019 – 09/2022
Dr. Cafer Avci, Postdoctoral researcher Aalto University, Finland	06/2019 – 06/2022
Dr. Yu Han, Postdoctoral researcher Aalto University, Finland	09/2017 – 10/2017
Mr. Jingfeng Ma, PhD student Southeast University, China	12/2022 - 12/2023
Ms. Haizhen Li, PhD student Chang'an University, China	03/2021 - 03/2022
Mr. Mohammad Karimi, PhD student Concordia University, Canada - with Prof. Ciprian Alecsandru	08/2017 - 06/2020
Mr. Chris Yung, MSc student Aalto University, Finland	06/2024 - 11/2024
Mr. Héctor Del Pino Verona, MSc student Aalto University, Finland - also at Universitat Politècnica de València, Spain	09/2019 – 01/2020
Mr. Germán R. Pardo González, Summer intern Aalto University, Finland - also at London School of Economics, UK	06/2024 – 08/2024
Ms. Olena Vol, Summer intern Aalto University, Finland - also at Université Paris 1 Panthéon-Sorbonne, France	06/2022 – 08/2022
Mr. Petr Anashin, Summer intern Aalto University, Finland - also at University of Tartu, Estonia	06/2022 – 08/2022
Mr. Petr Hajduk, MSc student Aalto University, Finland - also at VTT Technical Research Centre of Finland	01/2018 – 12/2018
At Technical University of Crete	
Ms. Maria Kontorinaki, PhD student Technical University of Crete, Greece - with Prof. Markos Papageorgiou	09/2017 – 09/2017
Ms. Georgia R. Iordanidou, PhD student Technical University of Crete, Greece - with Prof. Ioannis Papamichail	06/2013 – 03/2017
Ms. Sofia Papadopoulou, MsC student Technical University of Crete, Greece - with Prof. Markos Papageorgiou	01/2016 – 03/2017
Ms. Georgia Perraki, MsC student Technical University of Crete, Greece - with Prof. Ioannis Papamichail	03/2015 – 11/2016

Mr. Markos Fountoulakis, MsC student	03/2015 - 07/2016
TECHNICAL UNIVERSITY OF CRETE, GREECE - WITH PROF. MARKOS PAPAGEORGIOU	
Ms. Cecilia Pasquale, PhD student University of Genova, Italy - with Prof. Simona Sacone	05/2014 – 07/2014
AT University of Genova	
Mr. Haitam Laarabi, PhD student University of Genova, Italy - with Prof. Roberto Sacile	07/2012 – 04/2013
Invited presentations	
Network-wide motorway traffic control in presence of Vehicle Automation and Communication Systems UNIVERSITY OF CALIFORNIA LOS ANGELES, USA IPAM Workshop on Traffic Control, Part of the long program "New directions in mathematical approflow management"	26/10/2015 paches for traffic
Traffic management in the era of Vehicle Automation and Communications Systems and Smart Infrastructure University of Glasgow, UK Invited lecture	09/12/2015
Multilane traffic control in the presence of automated and connected vehicles UNIVERSITY OF LUXEMBOURG, LUXEMBOURG Workshop on Smart Mobility	01/06/2017
Integrated control of motorway bottlenecks via flow metering and lane assignment Technical University of Crete, Greece	12/09/2018
Invited seminar	
Traffic management for CAVs: Influence on traffic characteristics and control	28/05/2019
Strategies BEIJING UNIVERSITY OF TECHNOLOGY, CHINA Invited seminar	
User-based signal timing in a connected vehicle environment ZHEJIANG UNIVERSITY, CHINA Invited seminar	31/05/2019
Feedback-based integrated lane-based control with Connected and Automated Vehicles	06/11/2019
University of Canterbury, New Zealand Invited seminar	
Data-driven traffic flow estimation at intersections in a partially connected environment	20/09/2020
IEEE INTELLIGENT TRANSPORTATION SYSTEM CONFERENCE 2020, GREECE Workshop on Traffic Management for Future Mobility: CAVs in a Mixed Traffic Environment Traffic Management in the era of Connectivity and Automation	08/10/2020
TU Dresden, Germany Invited lecture	
Online set-point estimation for motorway traffic control with connected and automated vehicles	26/10/2022
University of Cyprus, Cyprus	
Invited seminar	

Invited seminar

Integration of large-scale activity-based and traffic assignment models: Calibration and equilibrium	18/10/2023
Queensland University of Technology, Australia Invited seminar	
Connected and Automated Driving: Obstacle avoidance and cooperative decentralised routing	23/10/2023
University of Queensland, Australia Invited seminar	
Connected and Automated Driving: Decentralised signal-free intersection management and cooperative routing UNIVERSITY OF SYDNEY, AUSTRALIA Invited seminar	03/11/2023
Dynamic ridesharing: Considering traffic congestion effects and fair pricing in matching and routing UNIVERSITY OF NEW SOUTH WALES, AUSTRALIA Invited seminar	13/11/2023
Matching and routing in Dynamic Ridesharing: Addressing traffic congestion and fair pricing TU DELFT, THE NETHERLANDS Invited webinar	21/03/2024
Invited external examiner	
Faculty evaluator Université Gustave Eiffel, France	02/2025
PhD degree examination University of Tartu, Estonia	11/2024
PhD degree examination Technion – Israel Institute of Technology, Israel	05/2024
PhD degree examination Trinity College Dublin, Ireland	05/2024
PhD degree examination Technical University of Crete, Greece	12/2022
PhD entry examination Swiss Federal Institute of Technology in Zurich (ETH), Switzerland	12/2020
PhD degree examination Technical University of Crete, Greece	07/2019
PhD degree examination Technical University of Crete, Greece	09/2017
PhD degree examination Technical University of Crete, Greece	03/2017
2 MSc degree theses École polytechnique fédérale de Lausanne (EPFL), Switzerland	02/2017

Research evaluation

- Evaluator of research proposals for California METRANS Transportation Center
- Evaluator of research proposals for the Netherlands Organisation for Scientific Research (NWO), domain Applied and Engineering Sciences
- Evaluator of research proposals for the Luxembourg national research fund (FNR)

- Evaluator of research proposals for the Research Grants Council (RGC) of Hong Kong
- Evaluator of research proposals for the Swiss National Science Foundation (SNSF)
- Evaluator of grant proposals for the National Science Center (NCN) of Poland
- External Expert in the evaluation of COST Action proposals, for the European Commission

Recognitions and awards

- The paper by Roncoli, C., Papageorgiou, M., Papamichail, M., titled "Traffic flow optimisation in presence of vehicle automation and communication systems Part II: Optimal control for multi-lane motorways", was listed among the "Most Cited Transportation Research Part C: Emerging Technologies Articles" during 2015-2018.
- The paper by Spiliopoulou, A., Perraki, G., Papageorgiou, M., Roncoli, C., titled "Exploitation of ACC systems towards improved traffic flow efficiency on motorways", which was presented by A. Spiliopoulou at the 5th IEEE International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS 2017), Naples, Italy, June 26-28, 2017, received the "Best Paper Presented by a Woman award".
- The paper by Bekiaris-Liberis, N., Roncoli, C., Papageorgiou, M., titled "Highway Traffic State Estimation With Mixed Connected and Conventional Vehicles", received the 2019 "George N. Saridis Best Transactions Paper Award" for Outstanding Research.
- The paper by Zhou, Z., Roncoli, C., titled "A fairness-aware joint pricing and matching framework for dynamic ridesharing", which was presented by Z. Zhou at the 8th IEEE International Conference on Models and Technologies for Intelligent Transportation Systems (MT-ITS 2023), Nice, France, June 14-16, 2023, received the "Best Paper Award".
- The paper by Vitale, F., Roncoli, C., titled "Real-time congestion-aware distributed cooperative rerouting of connected and automated vehicles in urban networks", which was presented by F. Vitale at the TRB 103rd Annual Meeting, Washington, DC, USA, January 7-11, 2024, received the "Best Young First Author Award" for the Operations Section.

Personal information

Nationality: Italian

Date of birth: 30/10/1984

• Languages: Italian (mother tongue), English (fluently), Dutch (basic), French (basic), Greek (basic)

Publication list

ARTICLES IN INTERNATIONAL JOURNALS

- 1. Roncoli, C., Bersani, C., and Sacile, R. A risk-based system of systems approach to control the transport flows of dangerous goods by road. *IEEE Systems Journal*, 7(4):561–570, 2013. DOI: 10.1109/JSYST.2012.2212652.
- 2. Iordanidou, G.-R., Roncoli, C., Papamichail, I., and Papageorgiou, M. Feedback-based mainstream traffic flow control for multiple bottlenecks on motorways. *IEEE Transactions on Intelligent Transportation Systems*, 16 (2):1–12, 2014. DOI: 10.1109/TITS.2014.2331985.
- 3. Pasquale, C., Papamichail, I., Roncoli, C., Sacone, S., Siri, S., and Papageorgiou, M. Two-class freeway traffic regulation to reduce congestion and emissions via nonlinear optimal control. *Transportation Research Part C: Emerging Technologies*, 55(1):85–99, 2015. DOI: 10.1016/j.trc.2015.01.013.
- 4. Roncoli, C., Papageorgiou, M., and Papamichail, I. Traffic flow optimisation in presence of vehicle automation and communication systems Part I: A first-order multi-lane model for motorway traffic. *Transportation Research Part C: Emerging Technologies*, 57:241–259, 2015. DOI: 10.1016/j.trc.2015.06.014.
- 5. Roncoli, C., Papageorgiou, M., and Papamichail, I. Traffic flow optimisation in presence of vehicle automation and communication systems Part II: Optimal control for multi-lane motorways. *Transportation Research Part C: Emerging Technologies*, 57:260–275, 2015. DOI: 10.1016/j.trc.2015.05.011.
- 6. Roncoli, C., Papamichail, I., and Papageorgiou, M. Hierarchical model predictive control for multi-lane motorways in presence of Vehicle Automation and Communication Systems. *Transportation Research Part C: Emerging Technologies*, 62:117–132, 2016. DOI: 10.1016/j.trc.2015.11.008.
- 7. Bekiaris-Liberis, N., Roncoli, C., and Papageorgiou, M. Highway traffic state estimation with mixed connected and conventional vehicles. *IEEE Transactions on Intelligent Transportation Systems*, 17(12):3484–3497, 2016. DOI: 10.1109/TITS.2016.2552639.
- 8. Roncoli, C., Bekiaris-Liberis, N., and Papageorgiou, M. Use of speed measurements for highway traffic state estimation: Case studies on NGSIM data and highway A20, Netherlands. *Transportation Research Record: Journal of the Transportation Research Board*, 2559(1):90–100, 2016. DOI: 10.3141/2559-11.
- 9. Han, Y., Hegyi, A., Yuan, Y., Hoogendoorn, S., Papageorgiou, M., and Roncoli, C. Resolving freeway jam waves by discrete first-order model-based predictive control of variable speed limits. *Transportation Research Part C: Emerging Technologies*, 77:405–420, 2017. DOI: 10.1016/j.trc.2017.02.009.
- 10. Fountoulakis, M., Bekiaris-Liberis, N., Roncoli, C., Papamichail, I., and Papageorgiou, M. Highway traffic state estimation with mixed connected and conventional vehicles: Microscopic simulation-based testing. *Transportation Research Part C: Emerging Technologies*, 78:13–33, 2017. DOI: 10.1016/j.trc.2017.02.015.
- 11. Roncoli, C., Bekiaris-liberis, N., and Papageorgiou, M. Lane-changing feedback control for efficient lane assignment at motorway bottlenecks. *Transportation Research Record: Journal of the Transportation Research Board*, 2625:20–31, 2017. DOI: 10.3141/2625-03.
- 12. Iordanidou, G.-R., Papamichail, I., Roncoli, C., and Papageorgiou, M. Feedback-based integrated motor-way traffic flow control with delay balancing. *IEEE Transactions on Intelligent Transportation Systems*, 18(9): 2319–2329, 2017. DOI: 10.1109/TITS.2016.2636302.
- 13. Bekiaris-Liberis, N., Roncoli, C., and Papageorgiou, M. Highway traffic state estimation per lane in the presence of connected vehicles. *Transportation Research Part B: Methodological*, 106:1–28, 2017. DOI: 10.1016/j.trb.2017.11.001.
- 14. Kontorinaki, M., Spiliopoulou, A., Roncoli, C., and Papageorgiou, M. First-order traffic flow models incorporating capacity drop: Overview and real-data validation. *Transportation Research Part B: Methodological*, 106: 52–75, 2017. DOI: 10.1016/j.trb.2017.10.014.
- 15. Papadopoulou, S., Roncoli, C., Bekiaris-Liberis, N., Papamichail, I., and Papageorgiou, M. Microscopic simulation-based validation of a per-lane traffic state estimation scheme for highways with

- connected vehicles. *Transportation Research Part C: Emerging Technologies*, 86:441–452, 2018. DOI: 10.1016/j.trc.2017.11.012.
- 16. Perraki, G., Roncoli, C., Papamichail, I., and Papageorgiou, M. Evaluation of a model predictive control framework for motorway traffic involving conventional and automated vehicles. *Transportation Research Part C: Emerging Technologies*, 92:456–471, 2018. DOI: 10.1016/j.trc.2018.05.002.
- 17. Roncoli, C., Bekiaris-Liberis, N., Carlson, R. C., and Geroliminis, N. Special issue on "Management of Future Motorway and Urban Traffic Systems". *Transportation Research Part C: Emerging Technologies*, 96:1–2, 2018. DOI: 10.1016/j.trc.2018.09.005.
- 18. Bekiaris-Liberis, N., Roncoli, C., and Papageorgiou, M. Predictor-Based Adaptive Cruise Control Design. *IEEE Transactions on Intelligent Transportation Systems*, 19(10):3181–3195, 2018. DOI: 10.1109/TITS.2017.2771501.
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OTHER PEER-REVIEWED CONFERENCE PRESENTATIONS (WITHOUT PUBLISHED PROCEEDINGS)

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